

Comparing Types of Graphs:

We have seen four types of graphs, but when do you use each type??? Look at your descriptions, pros and cons charts and examples from each type of graph (p. 7, 13, 15, 22, 24, 30, 31, 35, 37-39) and the figure on page 36 to help.

Type of Graph	When to use it...
Bar Graph	<ul style="list-style-type: none">-discrete data that is clearly separate from each other-compare data, facts, well-defined separate categories within graph <p>example: <u>students' favorite fruit</u></p>
Histogram	<ul style="list-style-type: none">-continuous data-make statements about data as a whole-range of data all related to one topic-summarize data with numbers grouped in ranges <p>example: <u>tree heights in orchard # of trees in each category of height</u></p>
Line Graph	<ul style="list-style-type: none">-continuous data-compare data within group-data changing over time-2 groups of data with a relationship where one affects the other-see trends in data-can estimate other values based on graph (interpolate, extrapolate) <p>example: <u>average temperature each month in 2016</u></p>
Circle Graph	<ul style="list-style-type: none">-discrete data-make statements about data as a whole-categories of data that are parts of a whole (percentage of a whole) <p>example: <u>percent of total persons surveyed that liked each kind of fruit</u></p>

